

next page gives the subdivisions which appear to be best established in the Lake Superior and Lake Huron territory.<sup>56</sup>

According to the general consensus of opinion among the present geologists of the United States and of Canada, the pre-Cambrian rocks of those countries may be divided into two great series. At the base lies a vast mass of gneisses, schists, and eruptive rocks, which, known as the "Fundamental Complex," is regarded as the oldest of the whole. Above this ancient series comes another enormous succession of rocks comprised under the general name of "Algonkian," but consisting of several distinct formations, separated from each other by unconformabilities, as shown here in the table.<sup>57</sup>

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<sup>56</sup> In compiling this table I have been indebted to Mr. C. R. van Hise of the United States Geological Survey for information kindly supplied by him, also to his paper in the *Amer. Journ. Sci.* and to Mr. Lawson's "Report on the Rainy Lake Region" in the Annual Report of the Canadian Geological Survey for 1887.

<sup>57</sup> Out of the large amount of literature which has grown up concerning the pre-Cambrian rocks of North America the following works may be cited:—W. E. Logan, "Geology of Canada," 1863; Annual Reports of the Geological Survey of Canada, particularly Mr. Lawson's Report on Rainy Lake above cited; Geological and Natural History Survey of Minnesota, vol. ii. Geology, by N. H. Winchell and W. Upham, 1888, and Annual Reports for 1887, 1888, 1891; Geological Survey of Wisconsin, Final Reports, vols. i. ii. iii. iv. by T. C. Chamberlin, R. D. Irving, C. E. Wright, E. T. Sweet, T. B. Brooks, etc.; Geological Survey of Michigan, 1873 (T. B. Brooks), 1881, vol. iv. (C. Rominger), 1891-92, containing a sketch of the geology of the iron, gold and copper districts by M. E. Wadsworth; Second Geological Survey of Pennsylvania, summary volume on Archæan Rocks by J. P. Lesley, 1892; Annual Reports of the United States Geological Survey, especially the 5th and 7th, containing memoirs by R. D. Irving, and the 10th containing a joint memoir by R. D. Irving and C. R. van Hise, and monograph V., on the copper-bearing rocks of Lake Superior by R. D. Irving; Bull. U. S. Geol. Surv. No. 23, T. C. Chamberlin and R. D. Irving; A. C. Lawson, Bull. Geol. Soc. Amer. i. 1890, pp. 163, 175; A. Winchell, op. cit. i. p. 357, ii. p. 85; N. H. Winchell, Proc. Amer. Assoc. xxxiii. 1885; J. D. Whitney and M. E. Wadsworth, "The Azoic System," Bull. Mus. Comp. Zool. Harvard, 1884. C. R. van Hise, *Amer. Journ. Sci.* xli. 1891, 117; R. Pumpelly and C. R. van Hise, op. cit. xliii. 1892, p. 224. The literature of American pre-Cambrian geology has recently been exhaustively discussed by C. R. van Hise in Bull. U. S. Geol. Surv. No. 86, "Correlation Papers—Archæan and Algonkian," 1892.